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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,947	12/29/2003	Daniel L. Cox	ACS 66148 (1675XDC)	7894
24201 FULWIDER P.	7590 06/28/200 ATTON I.I.P	EXAMINER		
HOWARD HUGHES CENTER			PELLEGRINO, BRIAN E	
6060 CENTER LOS ANGELE	DRIVE, TENTH FLO S. CA 90045	OR ,	ART UNIT	PAPER NUMBER
	-,	•	3738	
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			MAIL DATE	DELIVERY MODE
	•	·	06/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

			·	AN			
		Application No.	Applicant(s)				
Office Action Summary		10/748,947	COX ET AL.				
		Examiner	Art Unit				
		Brian E. Pellegrino	3738				
Period fo	The MAILING DATE of this communication ap	pears on the cover sheet w	ith the correspondence address				
	ORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE 3 M	ONTH(S) OR THIRTY (30) DA	AYS.			
WHIC - Exter after - If NC - Failu Any	CHEVER IS LONGER, FROM THE MAILING DISSIONS of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutively received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MON te, cause the application to become Al	CATION. reply be timely filed VTHS from the mailing date of this communi BANDONED (35 U.S.C. § 133).				
Status	·						
1)⊠	Responsive to communication(s) filed on 18 A	A <i>pril 2007</i> .					
2a)⊠	☐ This action is FINAL . 2b)☐ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.E). 11, 453 O.G. 213.				
Disposit	ion of Claims						
4)⊠	Claim(s) 17-22 and 24-33 is/are pending in the	ne application.					
	4a) Of the above claim(s) is/are withdra	awn from consideration.					
,	Claim(s) is/are allowed.						
	Claim(s) <u>17-22 and 24-33</u> is/are rejected.						
	Claim(s) is/are objected to.	for election requirement					
8)[Claim(s) are subject to restriction and	of election requirement.					
Applicat	ion Papers						
	The specification is objected to by the Examir						
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to th			404747			
	Replacement drawing sheet(s) including the corre						
11)[_]	The oath or declaration is objected to by the I	Examiner. Note the attache	ig Office Action of John 1 10-16	U Z.			
•	under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)	D☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority docume		Application No.				
	2. Certified copies of the priority docume3. Copies of the certified copies of the priority			ne er			
	application from the International Bure		Treceived in this Hadional Olas	3 0			
	See the attached detailed Office action for a li		ot received.				
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Attachme		,					
	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948)		y Summary (PTO-413) o(s)/Mail Date				
3) 🔲 Info	rmation Disclosure Statement(s) (PTO/SB/08) ser No(s)/Mail Date		Informal Patent Application				

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DETAILED ACTION

Information Disclosure Statement

The information disclosure statement filed 4/30/07 fails to comply with 37 CFR 1.98(a)(1), which requires the following: (1) a list of all patents, publications, applications, or other information submitted for consideration by the Office; (2) U.S. patents and U.S. patent application publications <u>listed</u> in a section separately from citations of other documents; (3) the application number of the application in which the information disclosure statement is being submitted on each page of the list; (4) a column that provides a blank space next to each document to be considered, for the examiner's initials; and (5) a heading that clearly indicates that the list is an information disclosure statement. The information disclosure statement has been placed in the application file, but the information referred to therein has not been considered. No list or 1449 sheet was supplied with the submission.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fischell et al. (5634928) in view of DeMello et al. (5429597). Fischell et al. discloses (Fig. 1) a stent delivery catheter with a guide wire **30** within an inner tube **11** with its lumen extending from the proximal to the distal end and a region for a stent. It can be seen the

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tip has a tapered end **11B** and has a radiopaque marker **17** attached to the inner tubular member. The system also includes an outer tubular member or sheath **20** that overlies the stent. Fischell also discloses means to move the outer member, col. 5, lines 26-29. However, Fischell et al. fail to disclose the tip component being attached or having the radiopaque material compounded with it. DeMello et al. teach that tips for catheters can be made of polymeric material, such as a poly-ether-block amide compounded with a radiopaque substance, col. 5, lines 6-21. DeMello et al. show (Fig. 2) the tip **35** attached to the catheter system and is tapered for good flexibility, col. 6, lines 58-60. It would have been obvious to one of ordinary skill in the art to use a radiopaque substance in a polymer attachable tip as taught by DeMello et al. with the catheter system of Fischell et al. in order to provide a non-movable radiopaque material and provide the ability to use different length tips by using attachable tips.

Claims 17,19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fischell et al. '928 in view of Klemm (5458615) and DeMello et al. '597. Fischell et al. and DeMello et al. are explained above. However, Fischell et al. fails to disclose an attached tip with a polymeric material compounded with it or explicitly the housing or pull-back assembly to retract the sheath. Klemm teaches (Fig. 12) a housing assembly 51 with a base and a slidable handle 53 thereon. DeMello et al. is explained supra. It would have been obvious to one of ordinary skill in the art to incorporate a pull-back handle assembly as taught by Klemm and an attachable radiopaque tip as taught by DeMello et al. with the catheter system of Fischell et al. such that it gives the surgeon

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easier manipulation capability and a non-movable tip that is easy to locate since it is radiopaque.

Claims 29-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Williams et al. (5391172) in view of Maria van Erp (6102891). Williams et al. disclose (Fig. 5) a delivery catheter with an inner tubular member having an inner guide wire lumen for guidewire 145. Williams also shows the inner member has a region for mounting a stent 40 and an outer restraining sheath 10. Fig. 3 shows a handle with a pull-back portion 100 mounted on a base. Williams discloses the handle retracts the sheath, col. 3, lines 14-24. However, Williams et al. fail to disclose the distal mounting region including an opening for fluid flow. Maria van Erp teaches (Figs. 2-4) a plurality of openings 13 formed along the length of the inner tubular member 12 that can allow fluid flow through the openings. Maria van Erp also teaches that the holes are important to allow air or fluid to be removed from the catheter, col. 3, lines 57-63. It would have been obvious to one of ordinary skill in the art to incorporate openings in the distal mounting region to allow fluid flow as taught by Maria van Erp in the catheter of Williams et al. such that no fluid or air can be introduced harmfully to the patient by using the holes to evacuate the lumen.

Claims 18,24,25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fischell et al. '928 in view of Klemm (5458615) and DeMello et al. '597 and further in view of Maria van Erp '891. Fischell as modified by Klemm and DeMello is explained supra. However, Fischell in view of DeMello fail to disclose the catheter system including means or a syringe to evacuate air from the catheter. Maria van Erp is also

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explained above. It would have been obvious to one of ordinary skill in the art to utilize air evacuation means as taught by Maria van Erp in the catheter system of Fischell et al. as modified by Klemm and DeMello in order to prevent any air embolis from forming in the bloodstream that resulted from lack of removal from the catheter.

Claims 20,26,27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fischell et al. '928 in view of Klemm et al. '615 and DeMello et al. '597 and further in view of Houser (5876369). Fischell as modified by Klemm and DeMello is explained supra. However, Fischell in view of Klemm and DeMello do not disclose the use of BaSO₄ in the PEBAX material of the catheter tip. Houser teaches that BaSO₄ is incorporated into polymers to provide radiopacity for enhancing fluoroscopic observations when using the system, col. 6, lines 11-19. It would have been obvious to one of ordinary skill in the art to incorporate the specific radiopaque material BaSO₄ in a polymer as taught by Houser using the catheter system of Fischell et al. as modified by Klemm and DeMello such that the tip has enhanced visibility for insertion purposes.

Allowable Subject Matter

Claims 21,22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Arguments

Applicant's arguments with respect to claims 17,28 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian E. Pellegrino whose telephone number is 571-272-4756. The examiner can normally be reached on Monday-Friday from 7:30 to 4pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott, can be reached on 571-272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BRIAN E. PELLEGRINO PRIMARY EXAMINED